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HIGHLIGHTED HANDOUT

BT405

Nano Biotechnology

BT405 by VU Learning HUB

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Virtual University of Pakistan

BT405 Nano Biotechnology

Final Term Past Papers

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2018

Bt405 nanobiotechnology 1.

What is nanocoating.

2. What is sensor.

3. What are the two types of glucose detection biosensor.

4. Applications of nanocoating^[5] Describe in detail siRNA drug delivery system^[6]

Describe in detail microarray^[7] Applications of carbon nanotubes^[8] Components of biosensor^[9] Features/criteria to choose sensor^[10] Applications of biosensor.

Bt405 final term paper 2018

40 mcq

1- human hair diameter(50 to 100 microns)

2- physicist discover x- ray (roentgen)

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- 3- world population need to feed (9.1 billion) 4- human cell contains (1 trillion) 5-optical biosensor (definition) 6- material where a polymer is filled(polymer composite) 7- which is not the characteristic of biosensor 8- specific analyte of interest to produce an effect (transducer) 9- redox reaction (physiological electron acceptor) 10- not an imaging test technique 11- nanotechnology (at nanoscale) 12- which is not the advantage of nanotechnology in medicine

Subjective

- 1- polymeric nanocomposite
- 2- Degenerative diseases
- 3- applications of nanocoating
- 4- applications of biosensors
- 5- detail note on microarray
- 6- application of carbon nanotubes
- 7-features to choose sensor
- 8-bioreceptor (2)
- 9- biosensor classification based on transducer
- 10- Define amperometric biosensor, blood glucose biosensor, potentiometric biosensor, DNA biosensor and calorimeter biosensor (10)

2017

Bt405

- What is biochip 2
 Properties of ceramics and glass 3
 Features of sensors 3
 Application of biosensor in environment 3
 Detail on bioreceptors 5
 Explain self adhesive and why diatoms are good model for biomimetic membrane 5
 What is spectroscopy and write X-ray method in detail 5
 Detail on application of biosensors 10

BT405

- Quantum Confinement
 Role of Nanotechnology in Diagnostics
 Nano particles as elements in Biosensors
 Five uses of nanotechnology in daily life
 Spectroscopy and X-ray siRNA Drug
 Delivery System
 Types of Glucose Biosensors
 Optical Microscope and its resolution power
 Microarray
 Application of Biosensors

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